

STANDARD INSPECTION REPORT OF A GAS OPERATOR FIELD AUDIT

FIELD AUDIT

Unless otherwise noted, all code references are to 49CFR Part 192.
If an item is marked Unsatisfactory, Not Applicable, or Not Checked, an explanation must be included in this report.

Operator: AMEREN ILLINOIS COMPANY	Operator ID#: 32513
Inspection Date(s): 11/4/2015 (Half), 11/5/2015	Man Days: 1.5
Inspection Unit: Petersburg	
Location of Audit: Petersburg	
Exit Meeting Contact:	
Inspection Type: Standard Inspection - Field Audit	
Pipeline Safety Representative(s): Kevin Hecker	
Company Representative to Receive Report: Michael Fuller	
Company Representative's Email Address: mfuller2@ameren.com	

Headquarters Address Information:	300 Liberty Peoria, IL 61602 Emergency Phone#: (800) 755-5000 Fax#:	
Official or Mayor's Name:	Ron Pate Phone#: (217) 424-6518 Email:	
Inspection Contact(s)	Title	Phone No.
Keith Hinrichs	Gas Operations Supervisor	

CUSTOMER METER & REGULATOR	Status
<u>Category Comment:</u> <i>Customer meter sets were observed at the following locations:</i> <i>In Petersburg:</i> 17585 State Park Road 17573 State Park Road 111 8th St. 113 8th St. 115 8th St. 122 W. Douglas St. 210 W. Douglas St. 210 W. Jackson St. 214 W. Jackson St. 222 W. Jackson St. 306 W. Jackson St. 324 W. Jackson St. 514 W. Monroe St.	

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423 W. Madison St.
 419 W. Madison St.
 405 W. Madison St.
 404 W. Madison St.
 320 W. Madison St.
 312 W. Madison St.
 403 10th St.
 405 8th St.
 117 Antle St.
 811 5th St.
 121 N. 6th St.
 122 Sheridan Rd.
 121 N. 8th St.
 218 W. Sheridan Rd.
 121 N. 9th St.
 316 W. Sheridan Rd.
 318 W. Sheridan Rd.
 402 W. Sheridan Rd.
 403 W. Sheridan Rd.
 317 W. Sheridan Rd.
 217 W. Sheridan Rd.
 211 W. Sheridan Rd.
 203 W. Sheridan Rd.
 219 N. 8th St.
 221 N. 8th St.
 205 W. Sangamon St.
 405 S. 9th St.
 101 E. Jefferson St.
 401 S. 6th St.
 325 S. 6th St.

In Kilbourne:

401 S. 1st St.
 116 S. 2nd St.
 209 Chestnut St.
 300 Chestnut St.
 303 Chestnut St.
 119 Chestnut St.
 103 N. 3rd St.
 103 S. 3rd St.
 101 N. 5th St.
 408 W. Elm St.
 301 W. Elm St.

[192.353(a)]	Is the customer meter and regulator installed in a readily accessible location and protected from corrosion and other damage, including if installed outside a building, vehicular damage that may be anticipated?	Unsatisfactory
<u>Issue Comment:</u> <i>The AC unit coolant line at 404 S. 9th was installed through the meter set. The coolant line and thermostat wire are also in contact with the meter set.</i>		
[192.355(b)(1)]	Is the customer regulator vent rain and insect resistant?	Satisfactory
[192.355(b)(2)]	Is the customer regulator vent located where gas from the vent escapes freely into the atmosphere and away from building openings?	Unsatisfactory
<u>Issue Comment:</u> <i>An intake/exhaust vent is directly over the regulator vent at 117 Antle, Petersburg.</i>		

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[192.355(b)(3)]	Is the vent protected from damage caused by submergence in areas of flooding?	Not Applicable
<u>General Comment:</u> <i>No meter sets were observed in areas prone to flooding.</i>		
[192.357(a)]	Is the customer meter and regulator installed to minimize anticipated stresses upon connecting piping?	Satisfactory
[192.357(d)]	Is a customer regulator that might release gas vented to the outside atmosphere?	Satisfactory
[192.359(a)]	Is the meter operating pressure within the allowable limits of the meter case rating?	Satisfactory
[192.365(a)]	Is the service line valve upstream of the regulator or meter?	Satisfactory
[192.365(c)]	Is the underground service line valve located in a curb box or standpipe that allows for ready operation?	Satisfactory
<u>General Comment:</u> <i>Staff observed an underground service line valve at 514 W. Monroe St., Petersburg. (Elementary School)</i>		
[192.727(d)][192.727(d)]	When service to the customer has been discontinued has the proper method been utilized to prevent unauthorized usage?	Satisfactory
<u>General Comment:</u> <i>Staff observed risers with service discontinued at the following locations:</i> <i>Thurber Excavation at 321 S. 8th Street, Petersburg</i> <i>121 N. 9th St., Petersburg</i> <i>401 S. 1st St., Kilbourne</i> <i>101 N. 5th St., Kilbourne</i>		
CATHODIC PROTECTION		Status
[192.463(a)]	Is the applicable cathodic protection criteria contained in Appendix D of this part being followed?	Satisfactory
[192.465(a)]	Were pipe to soil readings taken?	Satisfactory
<u>General Comment:</u> <i>Pipe-to-soil readings were taken at the following locations:</i> <i>401 S. 1st St., Kilbourne: -1.229</i> <i>116 S. 2nd., Kilbourne: -1.137</i> <i>209 Chestnut, Kilbourne: -1.186</i> <i>300 Chestnut, Kilbourne: -1.087</i> <i>303 Chestnut, Kilbourne: -1.313</i> <i>103 S. 3rd, Kilbourne: -1.292</i> <i>103 N. 3rd, Kilbourne: -1.242</i> <i>101 N. 5th, Kilbourne: -1.356</i> <i>408 W. Elm, Kilbourne: -1.512</i> <i>301 W. Elm, Kilbourne: -1.194</i> <i>122 Sheridan Rd., Petersburg: -1.045</i> <i>218 W. Sheridan Rd. Petersburg: -1.052</i> <i>121 N. 9th St. Petersburg: -1.035</i> <i>318 W. Sheridan Rd. Petersburg: -1.031</i>		

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402 W. Sheridan Rd. Petersburg: -1.014
 317 W. Sheridan Rd. Petersburg: -1.013
 217 W. Sheridan Rd. Petersburg: -1.038
 211 W. Sheridan Rd. Petersburg: -1.050
 203 W. Sheridan Rd. Petersburg: -1.033
 219 N. 8th St. Petersburg: -1.035
 221 N. 8th St. Petersburg: -1.165
 205 W. Sangamon St. Petersburg: -1.152
 405 S. 9th St. Petersburg: -1.042
 101 E. Jefferson St. Petersburg: -1.032
 325 S. 6th St. Petersburg: -1.054

[192.465(b)]	Were rectifier installations inspected?	Satisfactory
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General Comment:

Staff inspected a rectifier on the Athens Blacktop in Petersburg and obtained the following readings:

Coarse setting: 1
 Fine setting: 2
 2.92 V @ .5A (2.5 mV with .2A shunt)

[192.465(a)]	Were isolated mains/services tested?	Satisfactory
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General Comment:

Isolated services were tested at the following locations:

401 S. 1st St., Kilbourne: -1.229
 116 S. 2nd., Kilbourne: -1.137
 209 Chestnut, Kilbourne: -1.186
 300 Chestnut, Kilbourne: -1.087
 303 Chestnut, Kilbourne: -1.313
 103 S. 3rd, Kilbourne: -1.292
 103 N. 3rd, Kilbourne: -1.242
 101 N. 5th, Kilbourne: -1.356
 408 W. Elm, Kilbourne: -1.512
 301 W. Elm, Kilbourne: -1.194

[192.465(c)]	Were critical/non critical bonds tested?	Satisfactory
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General Comment:

A critical bond between Ameren and Williams Pipeline was tested at the test point on highway 97 south of Petersburg. The following readings were obtained:

-1.705 on Ameren
 -1.782 on Williams Pipeline
 @23 mA (2.3 mV with .01 shunt)

[192.467(a)]	Is electrical isolation provided by use of insulated meter spud, valve, union, or flange?	Satisfactory
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[192.467(c)]	Were casings installations tested for electrical isolation?	Satisfactory
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General Comment:

The following casings were inspected:

Casing at the railroad crossing near 6th and Walnut in Kilbourne: -1.237 on casing/-1.475 on carrier pipe

Casing at the railroad crossing on E. Sangamon St., Petersburg: -.567 on casing/-1.133 on carrier pipe

Casing at the railroad crossing on N. 5th St, Petersburg: -1.186 on casing/-1.184 on carrier pipe. This did not meet the 25 mV of separation criteria as stipulated

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<i>in the O&M. A reverse current test was performed with the following readings taken after applying 140mA of current to the casing: -1.189 on casing/-1.377 on carrier pipe.</i>		
[192.479(a)]	Is the above ground piping coated or painted as required?	Satisfactory
[192.479(c)]	Is the pipeline free of corrosion or pitting?	Satisfactory
DAMAGE PREVENTION		Status
[192.614]	Does the operator have a valid notification of planned excavation activities?	Satisfactory
<u>General Comment:</u> <i>Staff observed locating activities at 17573 and 17585 State Park Road, Petersburg. Ticket # A003020835</i>		
[265.40(a)]	Did the operator complete the locating activities in the specified timeframe?	Satisfactory
[192.614(c)(5)]	Were temporary markings made in accordance with the operator's Operation and Maintenance Manual?	Satisfactory
[192.707(a)(1)]	Are line markers placed and maintained as close as practical over each buried main and transmission line located at each crossing of a public road and railroad?	Satisfactory
<u>General Comment:</u> <i>Staff observed line markers at the following road/railroad crossings:</i> <i>At a casing on Tilson School Road</i> <i>At a road crossing on Route 97, south of Petersburg</i> <i>At a railroad casing on Walnut Street in Kilbourne</i> <i>At a railroad casing on S. 5th Street in Petersburg</i> <i>At a railroad casing on Route 29 in Cantral</i>		
[192.707(a)(2)]	Are line markers placed and maintained as close as practical over each buried main and transmission line located wherever necessary to identify the location of the transmission line or main to reduce the possibility of damage or interference?	Satisfactory
<u>General Comment:</u> <i>Staff observed line markers at the following locations:</i> <i>Along Sunny Acres Drive in Petersburg</i> <i>Along Route 29 north of Cantral</i> <i>Along Cline Road</i> <i>At the critical bond test point with Williams pipeline on Route 97 south of Petersburg</i>		
[192.707(c)]	Are line markers placed and maintained as close as practical over each main and transmission line located above ground?	Satisfactory
<u>General Comment:</u> <i>Line markers were observed at the following above-ground locations:</i> <i>Regulator Station #280030 on State Park Road</i> <i>Regulator Station #280002 at Route 97 and Athens Blacktop</i> <i>Regulator Station #280046 on Tilson School Road</i>		

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Regulator Station #280043 at Route 29 and W. Fisher Road
 Regulator Station #280023 on Route 97 in Oakford
 A farm tap on State Park Road (near reg station 280030)
 The rectifier on Athens Blacktop

[192.707(d)(1)]	Do the operator's line markers contain the following information: The following must be written legibly on a background of sharply contrasting color on each line marker: The word "Warning," "Caution," or "Danger" followed by the words "Gas (or name of gas transported) Pipeline" all of which, except for markers in heavily developed urban areas, must be in letters at least 1 inch (25 millimeters) high with ¼ inch (6.4 millimeters) stroke?	Satisfactory
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General Comment:

All line markers observed contained the required information in the correct format.

[192.707(d)(2)]	Do the operator's line markers contain the following information: The following must be written legibly on a background of sharply contrasting color on each line marker: The name and phone number (including area code) of the operator where the operator can be reached at all times?	Satisfactory
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General Comment:

All line markers observed contained the required information in the correct format.

PRESSURE LIMITING AND REGULATING DEVICES (MECHANICAL)	Status
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Category Comment:

The following regulator stations were inspected:

#280030 on State Park Road
 #280002 at Route 97 and Athens Blacktop
 #280046 on Tilson School Road
 #280043 at Route 29 and W. Fisher Road
 #280023 in Oakford

[192.739(a)(4)]	Was each pressure limiting station, relief device (except rupture discs), and pressure regulating station and its equipment subjected at intervals not exceeding 15 months, but at least once each calendar year, to inspections and tests to determine that it is properly installed and protected from dirt, liquids, or other conditions that might prevent proper operation.?	Satisfactory
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General Comment:

Staff confirmed inspection intervals for regulator stations during the record audit. Records for 2013 and 2014 were reviewed with no deficiencies noted.

[192.317(b)]	Is each above ground transmission line or main protected from accidental damage by vehicular traffic or other similar causes?	Satisfactory
[192.741(a),192.741(c)]	Were telemetering and/or recording gauges inspected for abnormally high or low pressure indications?	Not Checked

General Comment:

There are no telemetering or recording gauges within the Ameren Petersburg operating territory. All regulator stations are equipped with ERX devices that send data to Ameren Gas control. This data was not reviewed as part of this audit.

[192.743(a)]	Is overpressure protection provided on the pipeline downstream of the take point?	Satisfactory
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<u>General Comment:</u>		
Currently, there is no Ameren-owned over-pressure relief immediately downstream of the take point, however, one is planned with a projected in-service date of September 15, 2016.		
[192.199(d)]	Were the pressure relief or pressure limiting devices inspected to determine if the support was made of noncombustible material?	Satisfactory
[192.199(e)]	Were the pressure relief or pressure limiting devices inspected to determine if the discharge stacks, vents, or outlet ports were designed to prevent accumulation of water, ice, or snow, and located where gas can be discharged into the atmosphere without undue hazard?	Satisfactory
[192.199(h)]	Was each valve, designed to isolate the system under protection from its source of pressure, secured to prevent unauthorized operation of any stop valve that will make the pressure relief valve or pressure limiting device inoperative?	Satisfactory
VALVE MAINTENANCE		Status
<u>Category Comment:</u>		
Staff observed the following emergency valves: #280F030 at regulator station #280030 #280F002 at regulator station #280002 #280F046 at regulator station #280046 #280F043 at regulator station #280043 #280F023 at regulator station #280023		
[192.747(a)]	Were the valves readily accessible and was the operator able to access the valve with the appropriate valve wrench?	Satisfactory
ODORIZATION OF GAS		Status
[192.625(a)]	Was the odor intensity level readily detectable at or below 1/5th LEL?	Satisfactory
<u>General Comment:</u>		
Staff observed an odorant test performed at the Tilson School Road regulator station. A reading of .23 gas in air/.17 actual gas was obtained using a Heath Odorator.		
[192.625(e)]	Was the Odorization equipment and tank levels inspected?	Not Checked
<u>General Comment:</u>		
Staff did not inspect odorizers as part of this field audit.		
[192.625(f)]	Was the operator's equipment calibrated as required?	Satisfactory
<u>General Comment:</u>		
The Heath Odorator (serial # 3483) utilized for this odorization test was calibrated on 2/12/15.		
TRANSMISSION		Status
<u>Category Comment:</u>		
Ameren does not maintain any transmission pipelines out of the Petersburg operating center.		
[192.179(b)(1)]	Are transmission valves protected from tampering or damage?	Not Applicable

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[192.745(a)]	Were the valves inspected accessible?	Not Applicable
[192.719(a)]	Is pre-tested transmission pipe inventory maintained for use in an emergency?	Not Applicable
[192.179(c)]	If blow down activities were observed, were the blow down valves properly sized to allow the transmission pipeline to vent as rapidly as practicable and did the blow down vent freely to atmosphere away from any hazards?	Not Applicable
MARKING OF MATERIAL		Status
[192.63(a)]	Does the operator's components and pipe contain the required markings?	Satisfactory
OPERATOR QUALIFICATION		Status
Was a PHMSA Form 15 Operator Qualification Field Inspection Protocol Form completed?		No

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